

# 先導物質化学研究所・講演会

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## Rheological Characterization of Pitches

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先導物質化学研究所 中央111講義室

### [講演の要旨]

It is of a recent interest of pitch scientists and engineers to obtain carbon fibers of high-performance and greater specific surface area. These fibers are largely produced by melt spinning of pitches and electrospinning of the blend of pitch and organic polymer, followed by carbonization (and activation). Because of the extraordinary molecular size and composition of pitches, however, only a limited number of research papers on rheology are available although they have a significant importance in the design of fabrication processes of pitches. The dynamic and steady shear rheological properties of isotropic and anisotropic pitches will be discussed in relation with other physical properties such as liquid-crystalline texture and lattice structure. These preliminary rheological responses may be used as basic data in designing the melt spinning and other fabrication processes of pitches.

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